



City Colleges of Chicago
Harold Washington College



Associate in Arts in Physical Science

STUDENT DATA:

NAME: ROADMAP'S DEGREE

SSN: 000-00-0000

Credit Required	Potential Credit
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English Composition I (ENG 101) [EN024A]

3.00

(College credit by examination may apply. The CLEP General Examination with Essay is accepted at a score of 420 or above. Composition - Development of critical and analytical skills in writing and reading of expository prose. Writing assignments, as appropriate to the discipline, are part of the course. Prerequisite: Placement test, or Grade of C or better in English 100,)
{DANTES Code = 11.07.00}

English Composition II (ENG 102) [EN025A]

3.00

(College credit by examination may apply. The CLEP General Examination with Essay is accepted at a score of 420 or above. Composition - Continuation of English 101. Introduces methods of research and writing of investigative papers. Writing assignments, as appropriate to the discipline, are part of the course. Prerequisite: Grade of C or better in English 101.)
{DANTES Code = 11.07.00}

Fundamentals of Speech Communication (SPCH 101) [CM001A]

3.00

(College credit by examination may apply. Fundamentals of Speech Communication - Theory and practice of oral communication; development of poise and confidence, delivery, and speech organization; public speaking practice; small group discussion, and development of standards of criticism. Writing assignments, as appropriate to the discipline, are part of the course.)
{DANTES Code = 04.10.00}

Humanities and Fine Arts

9.00

(Art 103, Music 121, or any literature or philosophy course. Select from one of the below options:

Option 1

Choose one course from: Art 103; Fine Arts 104, 105, 107, 108, 109, or 110; Humanities 123, 203, 205, 207, 208; 210, 212 or 215; any Foreign Language class above 103; Literature 110-128, 150, 155, or 211; Music 101, 121, 122, 124, or 221; Philosophy 105-110, 201, or 202.

Humanities 201

Humanities 202

Option 2

Two courses, each chosen from a different category (A, B, C, or F)

- A. Humanities 208; Fine Arts 104 or 109; Fine Arts 110;
- B. Humanities 123, 212 or 215; Fine Arts 110; Music 101, 121, 122, 124, or 221;
- C. Humanities 210 or 215; Philosophy 105-110, 201, or 202;
- F. Any Foreign Language above 103.
Humanities 201

Option 3

Two courses, each chosen from a different category (D, E or F)

- D. Literature 110-128, 150, 155 or 211; or Humanities 123, 203, 205, 207, or 212
- E. Art 103; Humanities 203 or 215; or Fine Arts 105, 107 or 108
- F. Any Foreign Language above 103
Humanities 202

Visit the HWC website for a description of these courses.)

{DANTES Code = most 08.XX.XX series}

Social Science electives**9.00**

(College credit by examination may apply. The CLEP General Examination is accepted at a score of 420 or above. Consider taking one of the following: Anthropology, Geography, History, Political Science, Psychology, Social Science or Sociology - Recommend History 111 - History of the American People to 1855 to satisfy US Constitution CCC Graduation Requirement. Recommended History 112 -History of the American People since 1865. Recommend: Sociology 201 -Introduction to the Study of Society Recommended: Sociology 203 - Marriage and Family.)
{DANTES Code see 20.XX.XX series}

Mathematics Elective (MATH 118) or above**4.00**

(College credit by examination may apply. The CLEP General Examination is accepted at a score of 420 or above. Any course numbered above Mathematics 118, For students who entered the college during or after the Summer 1998 term, MATH 140 - College Algebra and MATH 141 - Plane Trigonometry may not be used to satisfy the mathematics requirement)
{DANTES Code = 14.01.04}

Natural Science Elective**3.00**

(At least one course must be in Biology or Microbiology, with at least one course, chosen from the Physical Sciences: Astronomy, Chemistry, Geology, Physical Science or Physics. One course must include a Lab component.)
{DANTES Code = see 16.13.00 or 16.99.00 or 16.XX.XX series}

General Chemistry I (CHEM 201)**5.00**

(General Chemistry I - Properties of matter, atomic theory, nomenclature, periodic table, bonding theory and molecular structure, chemical reactions and stoichiometry, thermochemistry, gas laws, solution chemistry. Writing assignments, as appropriate to the discipline, are part of the course.
Prerequisite: Concurrent enrollment in Chemistry 202 and one of the following: 1) Grade of C or better in Chemistry 121. 2) Chemistry placement

test. 3) Grade of C or better in Mathematics 110 or higher with high school chemistry. 4) Eligibility for Mathematics 140 or higher. 3 lecture hours and 4 lab hours per week.)
{DANTES Code = 16.05.00}

Recommended courses for the Physical Science Concentration

(The following courses are recommended by CCC/HWC as courses to be taken for the concentration in Physical Science.)

General Chemistry II (CHEM 203) 5.00

(General Chemistry II - Reaction kinetics; chemical equilibrium of gaseous, acid-base and precipitation reactions; thermodynamics; oxidation-reduction reactions; coordination chemistry; electrochemistry; nuclear chemistry; descriptive chemistry of metals; and qualitative analysis. Writing assignments, as appropriate to the discipline, are part of the course. Prerequisite: Chemistry 201 and Chemistry 202, or consent of department chairperson. 2 lecture hours and 4 lab hours per week.)
{DANTES Code = 16.05.00}

Introductory Statistics (MATH 125) 4.00

(College credit by examination may apply. Introductory Statistics - Basic descriptive statistics including frequency distributions, mode, mean and standard deviation. Permutations, combinations, probability rules and Bayes' Theorem. Binomial and normal distributions. Basic inferential statistics including sampling theory, confidence intervals for means and proportions, test of hypotheses. Chi-square distribution. Introduction to correlation and regression. Includes at least one hour per week using computers in statistical application. Writing assignments, as appropriate to the discipline, are part of the course. Prerequisite: Grade of C or better in Mathematics 112, or placement test.)
{DANTES Code = 14.09.00 or 14.09.06}

Plane Trigonometry (MATH 141) 3.00

(Plane Trigonometry - Definition of trigonometric functions, graphs of trigonometric functions and their universes. Applications to triangles, law of sines and cosines, trigonometric identities, equations, vectors and applications. Complex numbers in trigonometric form and DeMoivre's Theorem. Calculators will be used. Writing assignments, as appropriate to the discipline, are part of the course. Prerequisite: Grade of C or better in Mathematics 140, or placement test.)
{DANTES Code = 14.12.00}

Mechanics and Heat (Physics 221) 4.00

(Foundations and concepts in physics, including elementary problems in mechanics and heat: primarily for students in liberal arts, premedical or technical curricula. Writing assignments, as appropriate to the discipline, are part of the course. Prerequisite: Grade of C or better in Mathematics 118 or above. College credit for military training may apply.)

Electricity, Sound & Light (Physics 222) 4.00

(Electricity Sound Light - Continuation of Physics 221. Writing assignments, as appropriate to the discipline, are part of the course. Prerequisite: Physics 221 or 231 or 235.)

Additional Recommended Concentration Courses**3.00**

(College credit by examination may apply.)

Descriptive Astronomy (ASTR 201)

Physical Geology (GEOL 201)

Historical geology (GEOL 202)

Visit the HWCCC website for a description of these courses.)

Excess or Duplicate Credit**TOTAL****62.00****0.00**

Thank you for requesting support from the U.S. Coast Guard Institute (CGI). Whereas we serve as an activity in support of your unit Educational Services Officer (ESO), you are encouraged to seek assistance from your local ESO in your academic endeavors. The following information is provided to help you understand what is presented in this degree plan:

This document is an UNOFFICIAL Degree Plan to provide you with a preliminary assessment of how your prior learning experiences might fit into the specified degree program for this academic institution. If you choose to pursue this degree option, you must present it to a college representative, who will review it for the following:

- o Accurate representation of the college's degree program requirements, including course numbers and titles, credit hours for each course, lower- and upper-level course requirements, and the total number of credits needed for the degree.

- o Appropriate assignment of ACE Guide-recommended credit at the lower or upper level for military service schools and occupations, CLEP, DSST, and other tests, transfer credit for courses from other colleges and universities, certification programs, etc.

- o Appropriate assignment of SOC Course Category Codes from the SOC Handbook Transferability Tables. The SOC Degree Program Handbooks can be obtained from the SOC web site at: www.soc.aascu.org should you wish to learn more about the course transfer guarantees among SOC network institutions.

IMPORTANT NOTE: When you are ready to seek admission into this degree program, please contact the USCG Institute at 1-405-954-7241. Your advisor will send the college or university an official U.S. Coast Guard Institute transcript, a copy of the degree plan, and a ready-for-signature SOC Student Agreement which, when signed by a college official, becomes a contract for degree completion committing the college or university to supporting you in your academic endeavors.

Credit for all courses you have taken must be reflected on official transcripts sent directly to this college from the administrative offices of the colleges you previously attended. This degree plan is often used for information purposes by college counselors pending receipt of the official transcripts from the source colleges.

This degree plan is not intended to compete with your local college or university.

Keep in mind, you are allowed to transfer in a significant amount of the degree requirements to this institution. As such, credit from local colleges, college level examination programs, or advanced military training may be applied to this degree. You may also complete the courses necessary from this college either in residence (on campus or possibly on a military base at a campus extension in the Education Center) or through distance delivery of the courses. If you have questions, please contact the college counselor or your advisor listed at the bottom of this Degree Plan.

DEGREE PLAN LEGEND:

SH = Semester hours
VOC = Vocational, not relative to an academic degree
LL = Lower Level, i.e. courses at the Freshman/Sophomore level
UL = Upper Level, i.e. courses at the Junior/Senior level
GL = Graduate Level (sometimes recommended by ACE for very complex courses)
[#] such as [EN024A] or [EN024B] = SOC Course Category Codes*
{#} such as {DANTES Code = 01.02.03} = DANTES Academic Codes **

* SOC Course Category Codes: Service members Opportunity Colleges (SOC) is a consortium of over 1,600 accredited colleges and universities seeking to provide degree opportunities to the military. Over 170 of these institutions participate in network degree programs developed for the Army, Navy, Marine Corps, and Coast Guard. A SOC course category number beside a course from one of these institutions, such as [EN024A] or [EN024B] for English Composition, indicates that courses from other degree program institutions with the same code may be taken to satisfy the degree requirement. See the SOC Degree Programs Handbooks at <http://www.soc.aascu.org/>

** DANTES Academic Codes: The Defense Activity for Non-Traditional Education Support (DANTES) publishes the DANTES Independent Study Catalog (DISC) annually, which lists more than 6,000 courses from dozens of regionally accredited colleges and universities. Because this is a degree from a SOC affiliated college, the academic residency requirements are limited, thereby allowing students to transfer in a significant portion of the degree, as mentioned above. If the course you desire to take is not offered by this institution when you want to take it, consider the opportunities the courses in the DISC present. For more information, visit http://www.dantes.doded.mil/dantes_web/distancelearning/disc/front/cont.htm Keep in mind, you should always check with the counselor or academic advisor at this institution before enrolling in a course listed in the DISC to ensure it will be accepted in transfer toward this degree.

City Colleges of Chicago, Harold Washington College (CCC/HWC) General Information:

City Colleges of Chicago, Harold Washington College was founded in 1962 as Loop College, and was placed in the heart of the downtown business district to serve Chicago's business community through a broad spectrum of courses, two-year degrees, and certificate programs. Some of the academic programs that were offered during this period included business, data processing, and various course options within the human services profession. In 1987, the college's name was changed to commemorate Chicago's late Mayor Harold Washington. From its beginning, this has been a comprehensive college, offering students the traditional transfer-oriented

liberal arts and sciences curricula as well as career and vocational programs. Today's student body displays a diverse mix of cultures, backgrounds, purposes and academic interests.

The Center for Distance Learning (CDL) coordinates college-credit distance learning courses for the City Colleges of Chicago and is headquartered at Harold Washington College. CDL offers more than 90 college credit courses, including courses in business, computer science, economics, English, foreign language, geography, history, humanities, information technology, philosophy, political science, psychology, science, and sociology. Distance learning courses have the same prerequisites, as well as the same academic requirements and transferability, as traditional college credit courses. A student who completes a CDL course receives credit equivalent to the same course taught in the traditional classroom format.

Continuing education classes are approved by the Illinois Community College Board and carry Adult Education Units (AEU) of credit, which are applicable to a certificate (but not to an Associate Degree). HWC offers approved courses in business, general studies, adult basic education, and technical, occupational, health, and remedial program areas. A sampling of recent courses ranges across such areas as business, computer training, financial planning, fine arts, foreign languages, investments, management, medical training, music, phonics, photography, real estate, and sign language.

Harold Washington College is operated under the auspices of the Illinois Community College Board District 508. Harold Washington College is accredited by the Higher Learning Commission and is a member of the North Central Association.

Tuition per course: (Subject to change): For Chicago residents, the in-district rate is \$62.00 per credit hour; the out-of-district tuition rate is \$167.21 per credit hour, payable in addition to the in-district rate. The distance delivered courses is \$154.00 per credit hour, plus a \$50 tech fee per course. The online delivered courses is \$135.00 per credit hour. The military rate may vary if located at Fort Campbell, KY or Charleston SC.

In order to qualify for the listed Associate Degrees, the student must:

- I. Complete 60-79 semester hours. Only courses numbered 101 or higher (except for Chemistry 100) may be counted.
- II. Complete examinations for the Constitution of the United States and of the State of Illinois, the Code of the American Flag, and the Declaration of Independence. Waived for students who completed the test for Illinois high school graduation or a GED Certificate, or for students who have earned credit in History 111 or Political Science 201.
- III. Complete all courses for the General Education Core
- IV. Complete all general education and required core course work with a grade of "C" or better. Harold Washington College grades are on a four point scale: A=4, B=3, C=2, D=1.
- V. Select a major field and complete required core courses or elective courses. Specific degree programs vary
- VI. Earn at least 15 credit hours at Harold Washington College. Students applying for certificates requiring fewer than 15 credit hours may not use any transfer credits to fulfill program requirements.

To discuss your next step toward earning this degree with CCC/HWC, contact:
Program Coordinator: Professor Stewart Cohen, Business Department, Room 301-H,
Phone #: (312) 553-5700
City Colleges of Chicago
30 East Lake Street
Chicago IL 60601
Phone: (312) 553-5600
<http://hwashtington.ccc.edu/main.asp?section=pgms&navpage=proginfo>

POLICY NOTES:

The maximum amount of college level testing credit accepted by CCC/HWC is 45 semester hours. (Check with CCC/HWC counselors for acceptance of CLEP, DSST, or ECE examinations prior to taking each examination.)

Transfer credit accepted by CCC/HWC may include up to 45 semester hours of non-traditional credit (military credit or college level testing). An academic residency of 15 semester hours of this degree must be taken through CCC/HWC.

Evaluation completed by: Charles Morrison

On: 31 July 2007